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FIG.1

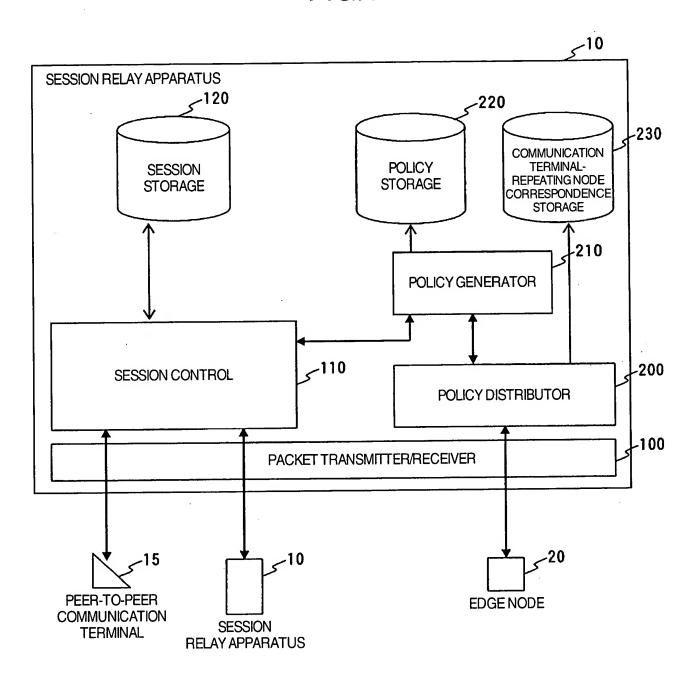


FIG.2

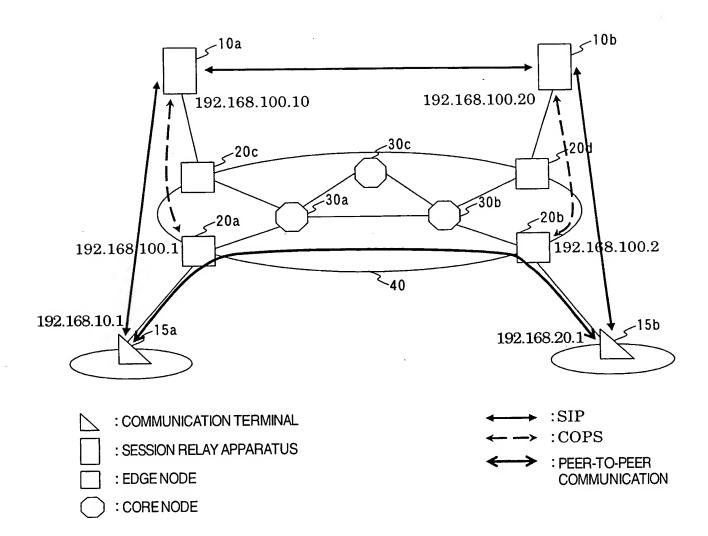


FIG.3

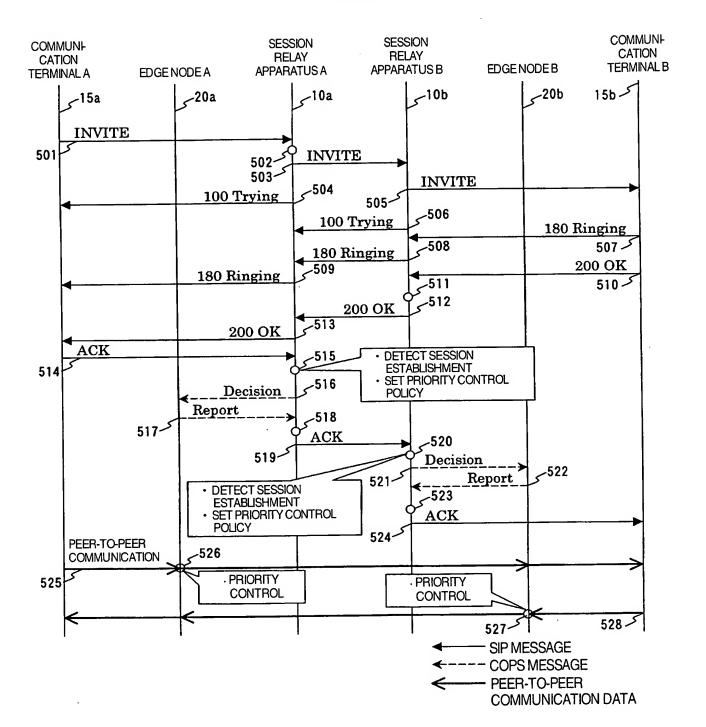


FIG.4

```
-800
INVITE sip:UserB@192.168.100.20 SIP/2.0
Via: SIP/2.0/UDP 192.168.10.1; branch=z9hG4bK352007m
From: <sip:UserA@192.168.100.10>; tag=111
To: <sip:UserB@192.168.100.20>
Call-ID: INV@UserA2B
CSea: 1 INVITE
Contact: <sip:192.168.10.1>
Content-Type: application/sdp
                                                       <sub>~</sub>801
  v=0
  o=userA 2890844526 2890842807 IN IP4 192.168.10.1
  s=QoS enable P2P
  i=A Peer to Peer with Quality of Service Control
  u=http://www.example.com/userA/p2p.txt
  e=userA@
  c=IN IP4 192.168.10.1
  t=2873397496 2873404696
  a=recvonly
  m=audio 49170 RTP/AVP 0
```

FIG.5

<220a

Call-ID	To tag	To tag From tag	TRANSMITTER ADDRESS	TRANSMITTER	TRANSMITTER TRANSMITTER DESTINATION DESTINATION DSCP VALUE ADDRESS PORT ADDRESS PORT	DESTINATION	DSCP VALUE	HELAY NETWORK
INV@UserA2B	946	111	192.168.10.1	49170	192.168.20.1	49171	0x001010	
:	i	:	:	:	:	•	•	:

FIG.6

COMMUNICATION TERMINAL IP ADDRESS	EDGE NODE IP ADDRESS
192.168.10.1	192.168.100.1
:	:

FIG.7

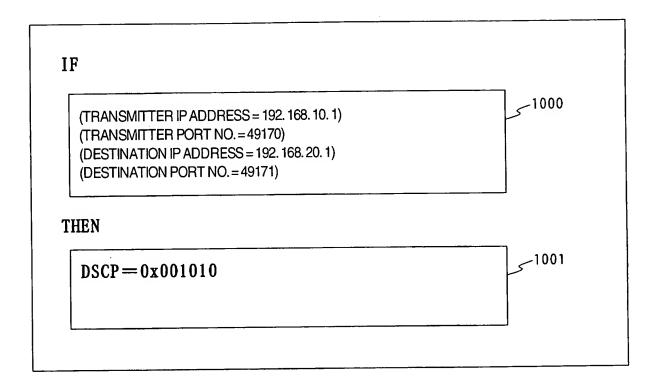


FIG.8

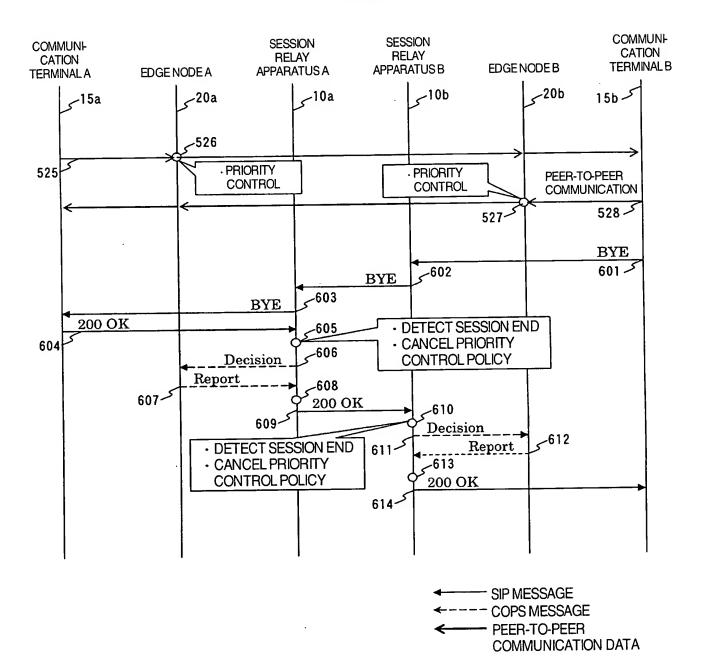


FIG.9

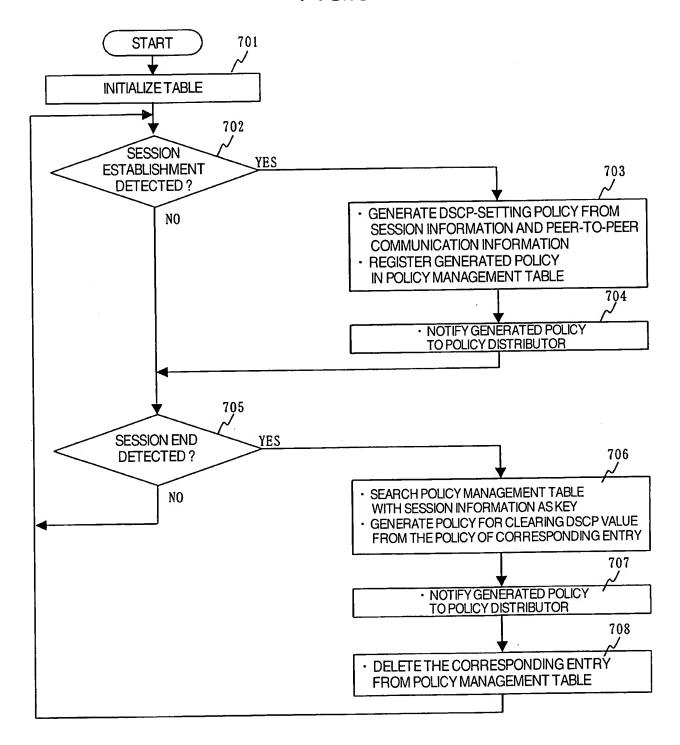


FIG.10

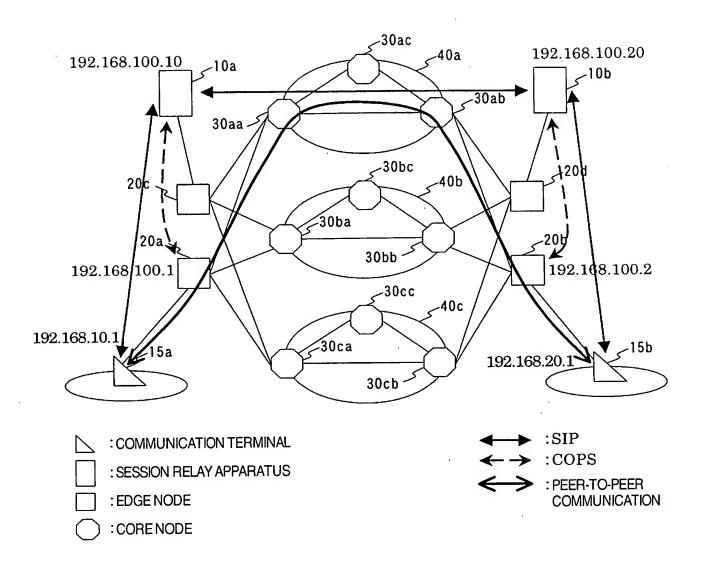


FIG.11

```
900ح
SIP/2.0 200 OK
Via: SIP/2.0/UDP 192.168.10.1; branch=z9hG4bK352007m
Via: SIP/2.0/UDP 192.168.100.10; branch=z9hG4bK3721532289
Via: SIP/2.0/UDP 192.168.10.020; branch=z9hG4bKaa92ca8
From: <sip:UserA@192.168.100.10>; tag=111
To: <sip:UserB@192.168.100.20>;tag=946
Call-ID: INV@UserA2B
CSeq: 1 INVITE
Contact: <sip:192.168.20.1>
Content-Type: application/sdp
                                                             <del>_</del>901
  v=0
  o=userB 2890844526 2890842807 IN IP4 192.168.20.1
  s=QoS enable P2P
  i=B Peer to Peer with Quality of Service Control
  u=http://www.example.com/userB/p2p.txt
  e=userB0
  c=IN IP4 192.168.20.1
  t=2873397496 2873404696
  a=recvonly
  m=audio 49171 RTP/AVP 0
```